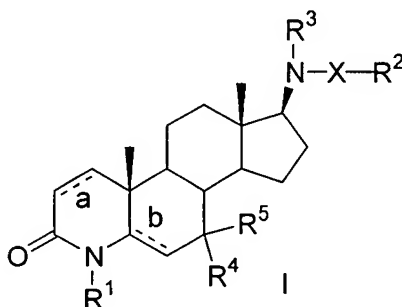


AMENDMENTS TO THE CLAIMS:

The listing of the claims which follows replaces any and all prior versions and/or listings of the claims in the application.

1. to 13 (**Canceled**)

14. (**Original**) A compound of structural formula I:



wherein:

“b” is a single bond, and “a” is a double bond;

X is selected from:

- (A) -C(O)-,
- (B) -C(O)-O-,
- (C) -C(O)-N(R<sup>7</sup>)-, and
- (D) -S(O)<sub>n</sub>-;

R<sup>1</sup> is methyl;

R<sup>2</sup> is selected from:

- (A) aryl, substituted by one substituents selected from:
  - (1) fluoro,
  - (2) chloro,
  - (3) bromo,
  - (4) methyl,
  - (5) methoxy,
  - (6) ethoxy,
  - (7) hydroxy,
  - (8) trifluoromethyl,
  - (9) trifluoromethoxy, and

- (10) acetyl;
- (B) C<sub>1-6</sub> alkyl, unsubstituted or substituted with one or two substituents independently selected from:
  - (1) fluoro,
  - (2) chloro,
  - (3) cyano,
  - (4) methoxy,
  - (5) hydroxy, and
  - (6) trifluoromethyl;
- (C) trifluoromethyl;
- (D) phenyl-C<sub>1-6</sub> alkyl-, wherein phenyl is unsubstituted or substituted with one or two substituents independently selected from:
  - (1) halogen,
  - (2) methyl,
  - (3) C<sub>1-2</sub> alkoxy,
  - (4) hydroxy,
  - (5) nitro,
  - (6) trifluoromethyl, and
  - (7) trifluoromethoxy;
- (E) C<sub>2-3</sub> alkenyl;
- (F) phenyl C<sub>2</sub>alkenyl, wherein phenyl is unsubstituted or substituted with a substituent selected from:
  - (1) halogen,
  - (2) methyl, and
  - (3) trifluoromethyl.
- (G) cycloheteroalkyl, either unsubstituted or substituted with one or two substituents selected from:
  - (1) fluoro,
  - (2) phenyl,
  - (3) C<sub>1-4</sub> alkyl,
  - (4) C<sub>1-3</sub> alkoxy,
  - (5) hydroxy,
  - (6) trifluoromethyl,
  - (7) oxo, and

(8) spiro C<sub>3-8</sub> cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R<sup>3</sup> is hydrogen;

R<sup>4</sup> and R<sup>5</sup> are each hydrogen;

R<sup>6</sup> is hydrogen;

R<sup>7</sup> is hydrogen,

n is 2;

and pharmaceutically acceptable salts thereof.

15. **(Previously amended)** A compound selected from:

- (1) 4-methyl-17 $\beta$ -(2-trifluoromethylbenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (2) 4-methyl-17 $\beta$ -(3-trifluoromethylbenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (3) 4-methyl-17 $\beta$ -(2-methoxybenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (4) 4-methyl-17 $\beta$ -(3-methoxybenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (5) 4-methyl-17 $\beta$ -(4-methoxybenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (6) 4-methyl-17 $\beta$ -(4-cyanobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (7) 4-methyl-17 $\beta$ -(2-chloro-pyrid-3-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (8) 4-methyl-17 $\beta$ -(pyrid-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (9) 4-methyl-17 $\beta$ -(pyrid-4-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (10) 4-methyl-17 $\beta$ -(4-(carboxymethyl)benzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (11) 4-methyl-17 $\beta$ -(pyrid-3-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (12) 4-methyl-17 $\beta$ -(2-fluorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (13) 4-methyl-17 $\beta$ -(3-fluorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (14) 4-methyl-17 $\beta$ -(4-fluorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (15) 4-methyl-17 $\beta$ -(2,4-difluorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (16) 4-methyl-17 $\beta$ -(4-chlorobutyramido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (17) 4-methyl-17 $\beta$ -(4-bromobutyramido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (18) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]- 2-bromoethyl ester;
- (19) 4-methyl-17 $\beta$ -(2-methylpropamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (20) 4-methyl-17 $\beta$ -(2-methoxyacetamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (21) 4-methyl-17 $\beta$ -(cyclopropamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (22) 4-methyl-17 $\beta$ -(acetamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;

- (23) 4-methyl-17 $\beta$ -(trifluoroacetamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (24) 4-methyl-17 $\beta$ -(3,3,3-trifluoropropionamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (25) 4-methyl-17 $\beta$ -(2-cyanoacetamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (26) 4-methyl-17 $\beta$ -(2-methyl-2-hydroxypropamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (27) 4-methyl-17 $\beta$ -(thiazo-4-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (28) 4-methyl-17 $\beta$ -(pyrimid-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (29) 4-methyl-17 $\beta$ -(pyrimid-4-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (30) 4-methyl-17 $\beta$ -(oxazo-5-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (31) 4-methyl-17 $\beta$ -(1-methyl-imidazo-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (32) 4-methyl-17 $\beta$ -(furan-3-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (33) 4-methyl-17 $\beta$ -(furan-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (34) 4-methyl-17 $\beta$ -(thiophene-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (35) 4-methyl-17 $\beta$ -(thiophene-3-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (36) 4-methyl-17 $\beta$ -(pyridazin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (37) 4-methyl-17 $\beta$ -(5-methyl-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (38) 4-methyl-17 $\beta$ -(5-chloro-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (39) 4-methyl-17 $\beta$ -(quinoline-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (40) 4-methyl-17 $\beta$ -(quinoline-8-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (41) 4-methyl-17 $\beta$ -(isoquinoline-8-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (42) 4-methyl-17 $\beta$ -(2-chlorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (43) 4-methyl-17 $\beta$ -(3-chlorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (44) 4-methyl-17 $\beta$ -(4-chlorobenzamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (45) 4-methyl-17 $\beta$ -(formamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (46) 4-methyl-17 $\beta$ -[(2-trifluoromethylphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (47) 4-methyl-17 $\beta$ -[(4-trifluoromethylphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (48) 4-methyl-17 $\beta$ -[(2-chlorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (49) 4-methyl-17 $\beta$ -[(3-chlorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (50) 4-methyl-17 $\beta$ -[(4-chlorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (51) 4-methyl-17 $\beta$ -[(2,4-dichlorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (52) 4-methyl-17 $\beta$ -[(3-fluorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (53) 4-methyl-17 $\beta$ -[(4-fluorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (54) 4-methyl-17 $\beta$ -[(2-methoxyphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (55) 4-methyl-17 $\beta$ -[(3-methoxyphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (56) 4-methyl-17 $\beta$ -[(2,5-dimethoxyphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;

- (57) 4-methyl-17 $\beta$ -[(3,5-difluorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (58) 4-methyl-17 $\beta$ -[(3-nitrophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (59) 4-methyl-17 $\beta$ -(tetrahydrofuran-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (60) 4-methyl-17 $\beta$ -(tetrahydrofuran-3-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (61) 4-methyl-17 $\beta$ -(4-ethyl-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (62) 4-methyl-17 $\beta$ -(3-methyl-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (63) 4-methyl-17 $\beta$ -(3-bromo-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (64) 4-methyl-17 $\beta$ -(4-bromo-pyridin-2-yl-amido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (65) 4-methyl-17 $\beta$ -[(2-phenylcyclopropyl)amido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (66) 4-methyl-17 $\beta$ -[(2-fluorophenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (67) 4-methyl-17 $\beta$ -[(pyrid-2-yl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (68) 4-methyl-17 $\beta$ -[(pyrid-3-yl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (69) 4-methyl-17 $\beta$ -[(4-methoxyphenyl)acetamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (70) 4-methyl-17 $\beta$ -[3-(2-fluorophenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (71) 4-methyl-17 $\beta$ -[3-(4-fluorophenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (72) 4-methyl-17 $\beta$ -[3-(4-rifluoromethylphenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (73) 4-methyl-17 $\beta$ -[3-(2-chlorophenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (74) 4-methyl-17 $\beta$ -[3-(3-chlorophenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (75) 4-methyl-17 $\beta$ -[3-(4-chlorophenyl)propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (76) 4-methyl-17 $\beta$ -[2-trifluoromethylcinnamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (77) 4-methyl-17 $\beta$ -[2-chlorocinnamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (78) 4-methyl-17 $\beta$ -[2-fluorocinnamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (79) 4-methyl-17 $\beta$ -[4-(2,5-dichlorophenyl)butanamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (80) 4-methyl-17 $\beta$ -[4-(2-nitrophenyl)butanamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (81) 4-methyl-17 $\beta$ -[4-(3,4-dimethoxyphenyl)butanamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (82) 4-methyl-17 $\beta$ -[propionamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (83) 4-methyl-17 $\beta$ -[butyramido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (84) 4-methyl-17 $\beta$ -[(2-methyl)cyclopropamido]-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (85) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-phenyl ester;
- (86) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
- (87) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-nitrophenyl ester;

- (88) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methylphenyl ester;
- (89) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-bromophenyl ester;
- (90) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-fluorophenyl ester;
- (91) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methoxyphenyl ester;
- (92) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-nitrophenyl ester;
- (93) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-naphthyl ester;
- (94) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-trifluoromethylphenyl ester;
- (95) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-ethyl ester;
- (96) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-benzyl ester;
- (97) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;
- (98) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyethyl ester;
- (99) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2,2-dimethylpropyl) ester;
- (100) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluoroethyl ester;
- (101) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-allyl ester;
- (102) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-methyl ester;
- (103) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propynoic ester;
- (104) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-methyl-2-butyl) ester;
- (105) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-(trifluoromethyl)phenyl ester;
- (106) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethyl)phenyl ester;
- (107) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluorophenyl ester;
- (108) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-fluorophenyl ester;

- (109) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-hydroxy-1-ethyl) ester;
- (110) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyphenyl ester;
- (111) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-methoxyphenyl ester;
- (112) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-ethoxyphenyl ester;
- (113) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-ethoxyphenyl ester;
- (114) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-ethoxyphenyl ester;
- (115) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
- (116) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-chlorophenyl ester;
- (117) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-(trifluoromethoxy)phenyl ester;
- (118) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethoxy)phenyl ester;
- (119) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-propyl ester;
- (120) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propyl ester;
- (121) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-butyl ester;
- (122) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-hexyl ester;
- (123) 4-methyl-17 $\beta$ -(phenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (124) 4-methyl-17 $\beta$ -(2-trifluoromethylphenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (125) 4-methyl-17 $\beta$ -(3-trifluoromethylphenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (126) 4-methyl-17 $\beta$ -(2-chlorophenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (127) 4-methyl-17 $\beta$ -(3-chlorophenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (128) 4-methyl-17 $\beta$ -(2-trifluoromethoxyphenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (129) 4-methyl-17 $\beta$ -(2-cyanophenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (130) 4-methyl-17 $\beta$ -(4-methoxyphenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (131) 4-methyl-17 $\beta$ -(3-bromo-5--methoxyphenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;

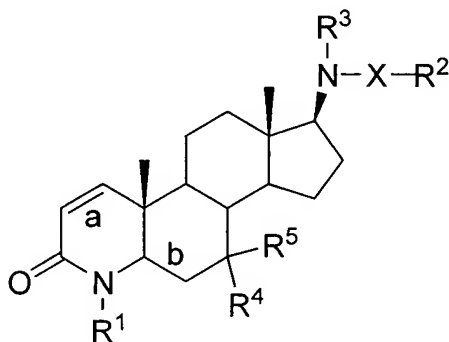
- (132) 4-methyl-17 $\beta$ -(8-quinolylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (133) 4-methyl-17 $\beta$ -(3-cyanophenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (134) 4-methyl-17 $\beta$ -(4-chlorophenylsulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (135) 4-methyl-17 $\beta$ -[(2-methylsulfonyl)phenyl]sulfonamido)-4-aza-5 $\alpha$ -androst-1-ene-3-one;
- (136) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-phenyl urea;
- (137) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2-trifluoromethyl)phenyl urea;
- (138) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(3-trifluoromethyl)phenyl urea;
- (139) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-3-chlorophenyl urea;
- (140) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-chloro-2-trifluoromethylphenyl) urea;
- (141) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-3-acetylphenyl urea;
- (142) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(5-chloro-2-trifluoromethylphenyl) urea;
- (143) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,4-bistrifluoromethylphenyl) urea;
- (144) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(3,4-difluorophenyl) urea;
- (145) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dichlorophenyl) urea;
- (146) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,4-dichlorophenyl) urea;
- (147) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(3,4-dichlorophenyl) urea;
- (148) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl urea;
- (149) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2-chloro-5-trifluoromethylphenyl) urea;
- (150) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-chloro-3-trifluoromethylphenyl) urea;
- (151) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;
- (152) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylphenyl) urea;
- (153) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;
- (154) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;
- (155) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;
- (156) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;
- (157) N-[(5 $\alpha$ ,17 $\beta$ )-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;



and pharmaceutically acceptable salts thereof.

16. to 21. (Cancelled)

22. (New) A compound of structural formula I:



wherein:

“b” is a single bond, and “a” is a double bond;

X is selected from:

- (E) -C(O)-,
- (F) -C(O)-O-,
- (G) -C(O)-N(R<sup>7</sup>)-, and
- (H) -S(O)<sub>n</sub>-;

R<sup>1</sup> is methyl;

R<sup>2</sup> is selected from:

(A) aryl, substituted by one substituents selected from:

- (11) fluoro,
- (12) chloro,
- (13) bromo,
- (14) methyl,
- (15) methoxy,
- (16) ethoxy,
- (17) hydroxy,
- (18) trifluoromethyl,
- (19) trifluoromethoxy, and
- (20) acetyl;

- (B) C<sub>1-6</sub> alkyl, unsubstituted or substituted with one or two substituents independently selected from:
- (7) fluoro,
  - (8) chloro,
  - (9) cyano,
  - (10) methoxy,
  - (11) hydroxy, and
  - (12) trifluoromethyl;
- (C) trifluoromethyl;
- (D) phenyl-C<sub>1-6</sub> alkyl-, wherein phenyl is unsubstituted or substituted with one or two substituents independently selected from:
- (8) halogen,
  - (9) methyl,
  - (10) C<sub>1-2</sub> alkoxy,
  - (11) hydroxy,
  - (12) nitro,
  - (13) trifluoromethyl, and
  - (14) trifluoromethoxy;
- (E) C<sub>2-3</sub> alkenyl;
- (F) phenyl C<sub>2</sub>alkenyl, wherein phenyl is unsubstituted or substituted with a substituent selected from:
- (4) halogen,
  - (5) methyl, and
  - (6) trifluoromethyl.
- (G) cycloheteroalkyl, either unsubstituted or substituted with one or two substituents selected from:
- (9) fluoro,
  - (10) phenyl,
  - (11) C<sub>1-4</sub> alkyl,
  - (12) C<sub>1-3</sub> alkoxy,
  - (13) hydroxy,
  - (14) trifluoromethyl,
  - (15) oxo, and
  - (16) spiro C<sub>3-8</sub> cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R<sup>3</sup> is hydrogen;

R<sup>4</sup> and R<sup>5</sup> are each hydrogen;

R<sup>6</sup> is hydrogen;

R<sup>7</sup> is hydrogen,

n is 2;

or a pharmaceutically acceptable salt thereof.

23. (New) A compound according to claim 15 which 4-methyl-17β-[(4-trifluoromethylphenyl)acetamido-4-aza-5α-androst-1-ene-3-one; or a pharmaceutically acceptable salt thereof.

24. (New) A compound according to claim 15 selected from:

- (1) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-bromoethyl ester;
- (2) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-phenyl ester;
- (3) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
- (4) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-nitrophenyl ester;
- (5) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methylphenyl ester;
- (6) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-bromophenyl ester;
- (7) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-fluorophenyl ester;
- (8) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methoxyphenyl ester;
- (9) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-nitrophenyl ester;
- (10) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-naphthyl ester;
- (11) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-trifluoromethylphenyl ester;
- (12) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-ethyl ester;
- (13) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-benzyl ester;

- (14) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;
- (15) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyethyl ester;
- (16) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2,2-dimethylpropyl) ester;
- (17) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluoroethyl ester;
- (18) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-allyl ester;
- (19) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-methyl ester;
- (20) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propynoic ester;
- (21) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-methyl-2-butyl) ester;
- (22) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-(trifluoromethyl)phenyl ester;
- (23) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethyl)phenyl ester;
- (24) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluorophenyl ester;
- (25) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-fluorophenyl ester;
- (26) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-hydroxy-1-ethyl) ester;
- (27) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyphenyl ester;
- (28) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-methoxyphenyl ester;
- (29) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-ethoxyphenyl ester;
- (30) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-ethoxyphenyl ester;
- (31) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-ethoxyphenyl ester;
- (32) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;

- (33) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-chlorophenyl ester;
- (34) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-(trifluoromethoxy)phenyl ester;
- (35) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethoxy)phenyl ester;
- (36) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-propyl ester;
- (37) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propyl ester;
- (38) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-butyl ester; and
- (39) Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-hexyl ester.

25. (New) A compound which is  
Carbamic acid, [(5 $\alpha$ ,17 $\beta$ )-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;  
or a pharmaceutically acceptable salt thereof.